

Notice of Allowability

Application No.

10/748,740

Examiner

Chat C. Do

Applicant(s)

MCCALLUM, IAN D.

Art Unit

2193

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 06/05/2007 and interview dated 07/17/2007.
2. ☒ The allowed claim(s) is/are 1-10, 15, 17-21, 23-26, and 28, as now re-numbered as 1-21.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

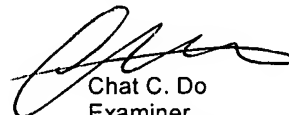
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date attached herein.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


Chat C. Do
Examiner
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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Patrick Buckley, Reg. No. 40,928 on 07/17/2007.

The application has been amended as follows:

Amending claims 1, 15, 19, and 24 as seen in the attached pages 2-6.

Canceling claims 11-14 as seen in the attached pages 2-6 since limitations cited in claims 11-12 are already incorporated into all independent claims 1, 15, 19, and 24 and claims 13-14 are cancelled due to withdrawn.

2. Claims 1-10, 15, 17-21, 23-26, and 28 are allowed.
3. Claims 11-14, 16, 22, and 27 are cancelled.
4. The following is an examiner's statement of reasons for allowance:

The prior art of records fail to disclose or render an obviousness of a method, article, and a computer searching for a matched sequence of bits comprising: applying a message digest function to the selecting predetermined bits from stream; determining by

comparing whether a pattern of bits resulting from above message digest function matches a predefined pattern stored in a search table and further comparing to a second predefined pattern stored in the search table when the resulting pattern of bits matches the predefined pattern, wherein the search table includes: a root table, at least one trie sub-table, at least one strand sub-table, at least one match sub-table, and at least one wildcard sub-table along with other features/limitations as cited in independent claims 1, 15, 19, and 24.

The closest found prior arts are Moreno (U.S. 7,065,544) and Fridrich (U.S. 6,101,602). Moreno in view of Fridrich discloses a method of searching for a match sequence of bit-stream comprising the comparison to the stored predefined pattern. However, Moreno in view of Fridrich fails to explicitly disclose a detail searching for a matched sequence of bits comprising multiple comparison with predefined patterns which stored in a search table includes: a root table, at least one trie sub-table, at least one strand sub-table, at least one match sub-table, and at least one wildcard sub-table as seen above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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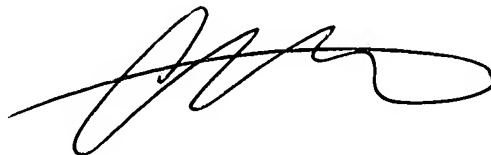
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chat C. Do whose telephone number is (571) 272-3721. The examiner can normally be reached on Tue-Fri 9:00AM to 7:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Chat C. Do
Examiner
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August 2, 2007

A handwritten signature in black ink, appearing to be 'Chat C. Do', written in a cursive style.